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☐ 1. Document ID: EP 531008 A1 JP 05247328 A

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Mar 10, 1993

DERWENT-ACC-NO: 1993-078522

DERWENT-WEEK: 199310

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TITLE: Prodn. of recycled polycarbonate-polyester compsns. - by blending with epoxy functionalised copolymer derived from epoxy cpd. and olefin!

INVENTOR: DEKKERS, M E J; LAUGHNER, M P ; SCOBBO, J J

PATENT-ASSIGNEE:

ASSIGNEE

CODE

GENERAL ELECTRIC CO

GENE

PRIORITY-DATA: 1991US-0748596 (August 22, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 531008 A1	March 10, 1993	E	007	C08J011/06
JP 05247328 A	September 24, 1993		005	C08L067/02

DESIGNATED-STATES: DE ES FR GB IT NL

CITED-DOCUMENTS: EP 175220; EP 322095 ; EP 332772 ; WO 9116379

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 531008A1	August 18, 1992	1992EP-0307517	
JP05247328A	August 20, 1992	1992JP-0221025	

INT-CL (IPC): C08J 11/06; C08L 67/02; C08L 69/00; C08L 55/02; C08L 67/02; C08L 69/00

ABSTRACTED-PUB-NO: EP 531008A

BASIC-ABSTRACT:

The prodn. of recycled resin comprises blending under reactive conditions (a) 1-97 pts. wt. of at least one reclaimed polyester; (b) 97-1 pts. wt. of at least one reclaimed polycarbonate; (c) 1-40 pts. wt. of a reclaimed impact modifier; and (d) 1-40 pts. wt. of an epoxy functional olefin copolymer derived from at least one unsatd. epoxy cpd. and at least one olefin.

The polyester is pref. polybutylene terephthalate or polyethylene terephthalate. The reclaimed polycarbonate comprises structural units of the formula -O-R3-O-C(O)- (where R3 is radical of the formula A-Y-A1 A and A1 is monocyclic divalent radical, pref. p-phenylene, and Y is bridging radical in which one or two atoms separate A from A1 and is pref. isopropylidene; and at least 60% of the R3 gps. are aromatic). The impact modifier is a core shell polymer comprising a rubber core onto which is grafted at least one shell comprising a vinyl aromatic cpd., a vinyl cyanide cpd., an alkyl methacrylate, and/or a methacrylic acid. The alkyl methacrylate is methyl methacrylate. The rubber core is butadiene. The olefin is ethylene. The epoxy functionalised olefin

copolymer is selected from a copolymer derived from ethylene and glycidyl methacrylate and a terpolymer derived from ethylene, glycidyl methacrylate and vinyl acetate.

USE/ADVANTAGE - Useful for processing scrap plastic resins without sorting. The compsn. can be moulded into shaped articles which exhibit excellent mechanical properti

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PRODUCE RECYCLE POLYCARBONATE POLYESTER COMPOSITION BLEND EPOXY FUNCTION COPOLYMER DERIVATIVE EPOXY COMPOUND POLYOLEFIN

ADDL-INDEXING-TERMS:  
EPOXY!

DERWENT-CLASS: A23 A35

CPI-CODES: A04-G01C; A05-A04; A05-E01C; A05-E06; A07-A04A; A07-A04D; A08-M09B; A11-A03; A11-C03;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0009 0016 0218 0229 0234 0235 0241 0242 0299 0300 0369 0370 0418 0419 0495  
0496 0502 0503 0516 0517 0537 0538 0607 0608 0790 1093 1094 1282 1291 1292 1319 1323  
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SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1993-034622

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